DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-003222
Date Inspected: 22-Apr-2011

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island
OSM Arrival Time: 700
OSM Departure Time: 1900
Location: Changxing Dao, Shangha

Quality Control Contact:	Don Walton	**Quality Control Present:**	☑ Yes ☐ No
Material transfer:	☐ Yes ☐ No ☑ N/A	**Sampled Items:**	☐ Yes ☐ No ☑ N/A
Stock Transfer:	☐ Yes ☐ No ☑ N/A	**OK to Cut:**	☐ Yes ☐ No ☑ N/A
Rebar Test Witness:	☐ Yes ☐ No ☑ N/A	**Delayed/Cancelled:**	☐ Yes ☑ No ☐ N/A
Other:	Coatings Inspection		
Bridge No:	34-0006	**Component:**	Sub-Assemblies (OBG).
Bid Item:	77,78,79	**Lot No:**	

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

Crash Barriers External Surfaces (4 Each), NOI Number 6283: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Crash Barriers External Surfaces (4 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT), ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub) and ISO 11127-6 and ISO 11127-7 for the presence of soluble salts. All test results were acceptable and within desired limits with x1 MEK @ grade 5 and x1 soluble salts reading of (17.7 µs/cm). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers External Surfaces (3 Each) and Dehumidifier Bases (SA7540 and SA7053), NOI Number 6283: In preparation for finish coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Crash Barriers External Surfaces (3 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT), ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection Crash Barrier W2-SB16-001 PP113.5-PP114 due to x1 MEK @ grade 3 and Dehumidifier Bases (SA7540 and SA7053) due to

high (DFT) readings.

Bike Path Panel BK4A-014, NOI Number 6284: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Bike Path Panel BK4A-014. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Bike Path Panel BK4B-001 and BK4A-013, NOI Number 6284: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Bike Path Panel BK4B-001 and BK4A-013 for dry film thickness (DFT) and final VT compliance. No discrepancies noted on BK4A-013 and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection BK4B-001.

Facade Cover Plates External Surfaces (17 Each), NOI Number 6285: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Facade Cover Plates External Surfaces (17 Each) for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection x2 Cover Plates. No other discrepancies noted on remaining items and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barrier Cover Plates Internal (192 Each), NOI Number 6286: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barrier Cover Plates Internal (192 Each) for dry film thickness (DFT) compliance. No discrepancies noted on remaining items and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L12E Internal Diaphragm, NOI Number 6288: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L12E Internal Diaphragm damaged area re-blast. Test results recorded x3 surface profile readings in the range of 79 to 82 µm. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Galvanized Traveler Rails (43 Each), NOI Number 6289: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Galvanized Traveler Rails (43 Each) for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection 11TR12-001 EB80. No other discrepancies noted on remaining items and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Galvanized Traveler Rails (13 Each) and Dehumidifier Bases (X6030 and X6031), NOI Number 6290: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Galvanized Traveler Rails (13 Each) and Dehumidifier Bases (X6030 and X6031). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

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Crash Barriers (6 Each), NOI Number 6291: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Crash Barriers (6 Each). Test results recorded x3 surface profile readings in the range of 68 to 82 µm and x1 soluble salts reading of (11.6 µs/cm). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to additional required grinding and re-blasting.

Crash Barriers (13 Each), Splices (2 Each) and L-Splices for Traveler Rails (28 Each), NOI Number 6292: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barriers (13 Each), Splices (2 Each) and L-Splices for Traveler Rails (28 Each) in preparation for blasting operations. No discrepancies noted on remaining items and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers (6 Each), NOI Number 6293: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Crash Barriers (6 Each). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection E2-SB24B-001 PP111 PP111.5, W2-SB13-001 PP108.5 PP109 and E2-SB26-001 PP112.5 PP113 prior to proceeding with process to the next check point due to required weld repairs. No other discrepancies noted on remaining items and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer